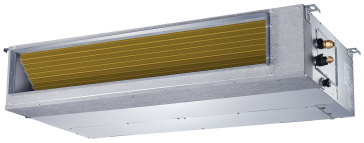
Slim Duct Heat Pump System	
Indoor Model: SAK-09-DT1/220V	Outdoor Model: SAK-09-DT2/220V
Location:	Approval:
Engineer:	Date:
Submitted to:	Construction:
Submitted by:	Unit #:
Reference:	Drawing #:



INDOOR SPEINDOOR SPECIFICATIONCIFICATION		
Indoor Air Flow (Turbo/H/M/L/Si) (CFM)		323.7 / 264.9 / 206.0 / 147.2 / 117.7
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)		N\A/34/32.5/29/24
Indoor static pressure range（in.w.g.)		0-0.4
Dimension (W×D×H)	**inch**	27.56 x 19.92 x 7.87
	mm	700.0×506.0×200.0
Package (W×D×H)	**inch**	33.86 x 21.26 x 11.22
	mm	860×540×285
Net/Gross Weight	**lbs**	39.46/46.74
	kg	17.9/21.2

OUTDOOR SPECIFICATION		
Compressor Type		ROTARY
Compressor Model		KSK103D33UEZ3
Refrigerant		R454B
Refrigerant Oil Charge(mL)		310
Refrigerant Oil		2.40/5.65
Outdoor Air Flow (Max) (CFM)		1236.1
Outdoor Noise Level (dBA)		54.0
Dimension (W×D×H)	**inch**	30.12 x 11.93 x 21.85
	mm	765.0×303.0×555.0
Package (W×D×H)	**inch**	34.92 x 13.27 x 24.02
	mm	887×337×610
Net/Gross Weight	**lbs**	62.17/67.68
	kg	28.2/30.7

EFFICIENCY			
Cooling		Heating	
SEER2	19.5	HSPF2-4	11.0
EER2	12.8	COP	3.66

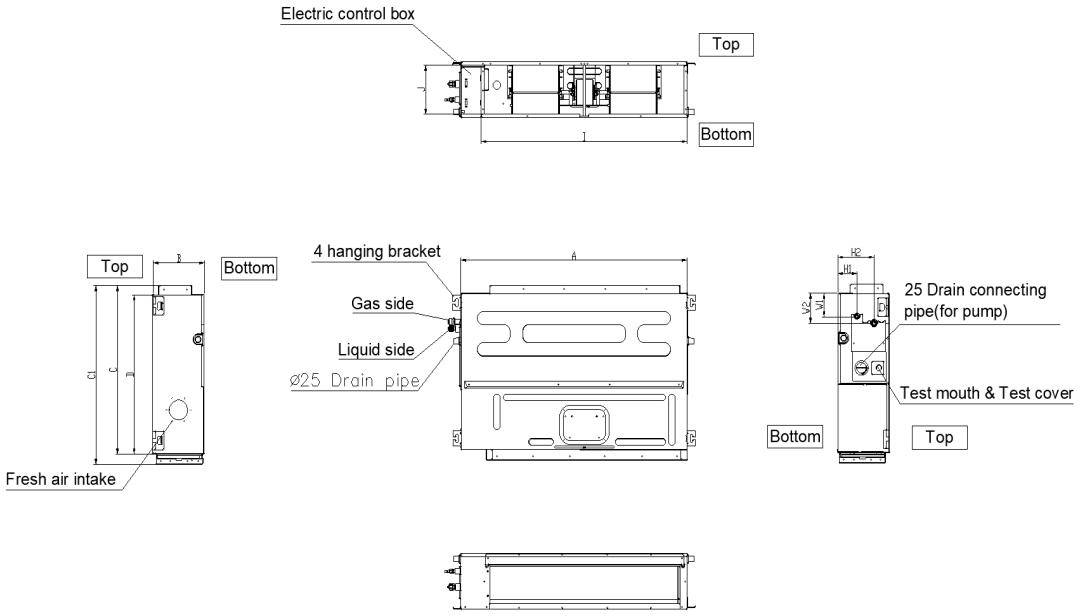
PERFORMANCE of Cooling	
Cooling (Btu/hr)	
Rated Capacity	9000
Min/Max Capacity	3100~11900
Moisture Removal(L/h)	0.68
Standard Operating Range(℉/℃)	-13~122(-25~50)
Conditions:	Indoor: 80℉ DB/67℉ WB
	Outdoor: 95℉ DB/75℉ WB

PERFORMANCE of Heating	
Heating (Btu/hr)	
1. @ 47℉ Rated	10000
1. @ 47℉ Min/Max Capacity	3600~14000
2. @ 17℉ Rated	8900
3. @ 5℉ Rated: Capacity / COP	8600/2.25
3. @ 5℉ Max: Capacity	8600
Standard Operating Range(℉/℃)	-13~75(-25~24)
1. Conditions:	Indoor: 70℉ DB/60℉ WB
	Outdoor: 47℉ DB/43℉ WB
2. Conditions:	Indoor: 70℉ DB/60℉ WB
	Outdoor: 17℉ DB/15℉ WB
3. Conditions	Indoor: 70℉ DB/60℉ WB
	Outdoor: 5℉ DB/5℉ WB

ELECTRICAL	
Power Supply	208/230V,60Hz,1Ph
System MCA	12.00
Connection Wiring	14#x4
System MOCP	15
Compressor RLA	7.3
Outdoor Fan Motor RLA	0.6
Outdoor Fan Motor W	34
Indoor Fan Motor RLA	1.2
Indoor Fan Motor W	81
System Power Input @ Cooling (W)	703(150 ~ 1040)
System Power Input @ Heating (W)	800(250 ~1190)
MCA: Min. circuit amps (A)	**MOCP**: Max. over current protection (A)
RLA: Rated load amps (A)	**W:** Fan motor rated output (W)

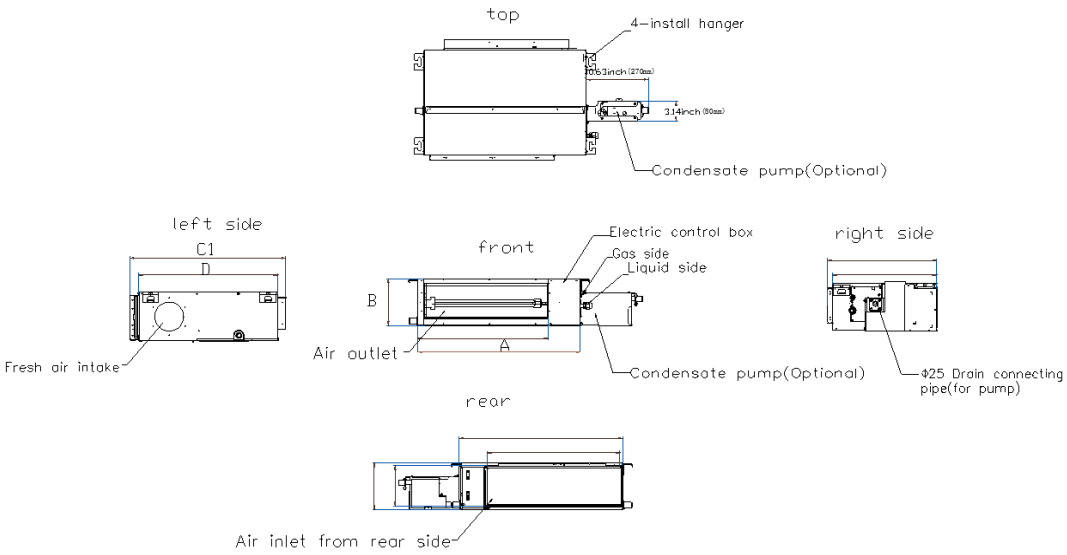
PIPING	
Throttle type(Indoor)	N/A
Throttle type(Outdoor)	EXV
Liquid Size	6.35mm(1/4in)
Gas Size	9.52mm(3/8in)
Max. Piping Length(ft/m)	82.00(25)
Max. Height Difference(ft/m)	49.20(15)
Max. Pre-charged Length(ft/m)	24.6(7.5)
Refrigerant Pre-charged Amount(oz/kg)	32.45(0.92)
Additional Charge of Refrigerant((oz/ft)/(g/m))	0.16(15)
Connection Method	Flared

Indoor Unit Dimension(internal pump)



Model(kBtu/h)	unit	A	B	C	C1	D
6 -12	mm	700	200	470	506	450
	in	27-1/2	7-7/8	18-1/2	20	17-3/4
18	mm	880	210	634	674	600
	in	34-5/8	8-1/4	25	26-1/2	23-5/8

Indoor Unit Dimension(external pump)



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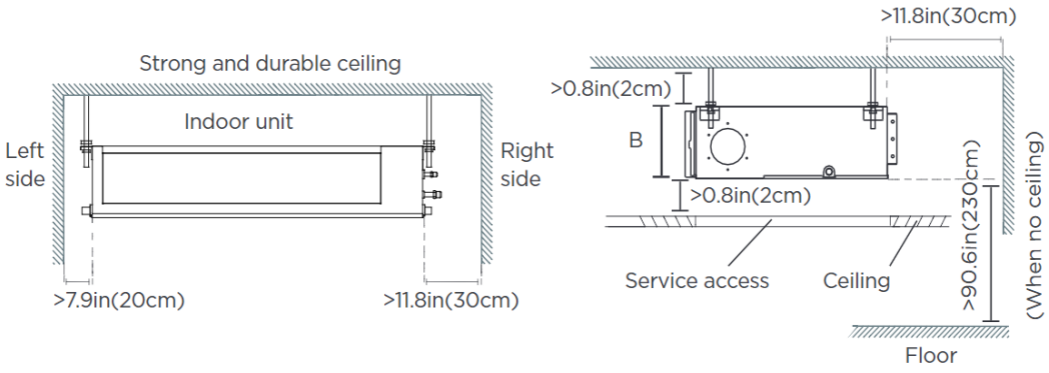
18	mm	880	210	634	674	600
	in	34-5/8	8-1/4	25	26-1/2	23-5/8

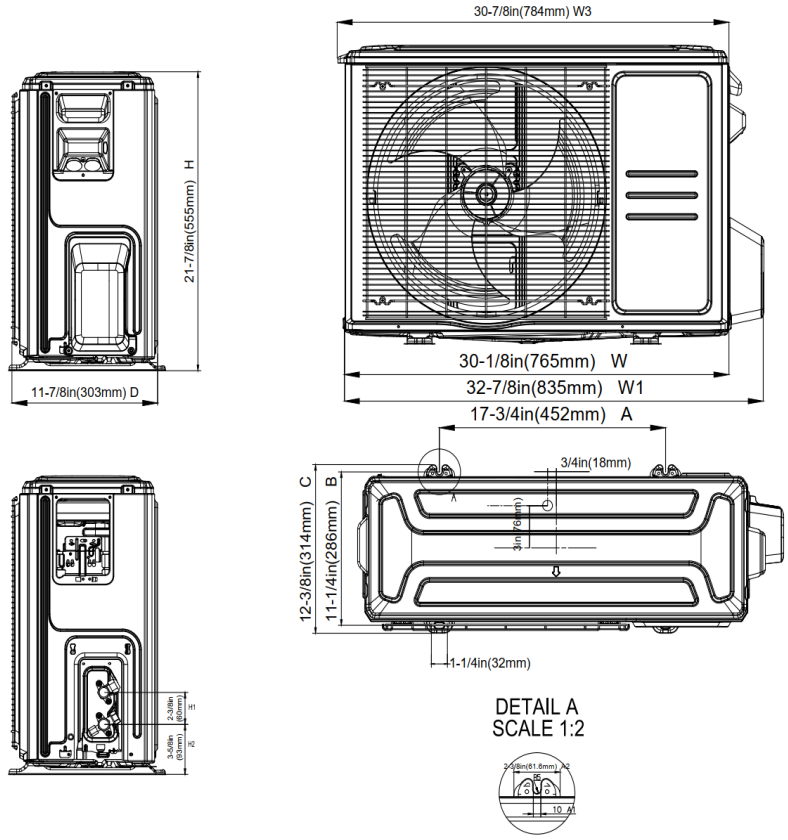
Installation Instruction

Installation place

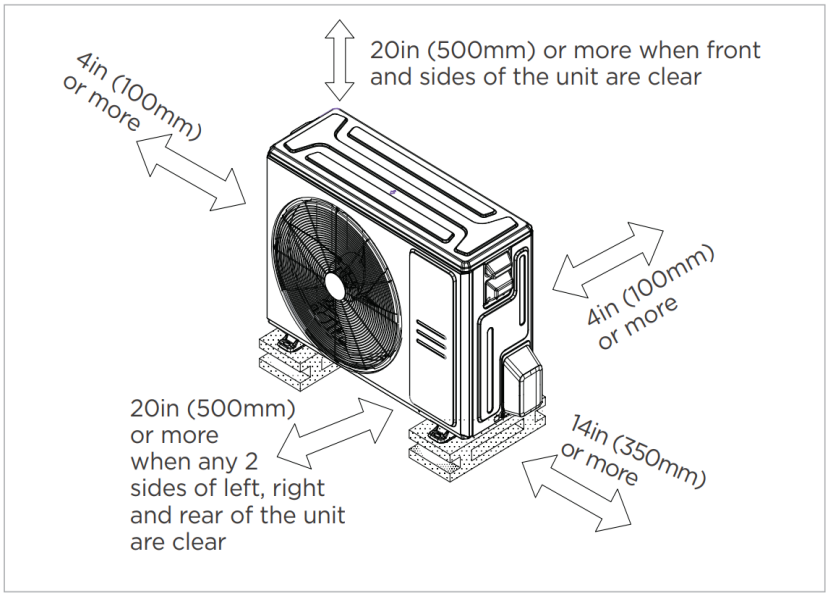
The distance between the mounted indoor unit should meet the specifications illlustrated in the following diagram.



Outdoor Unit Dimension

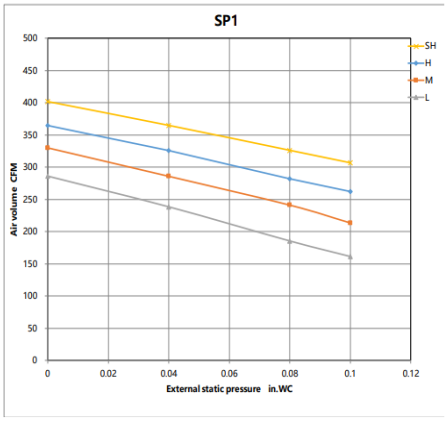


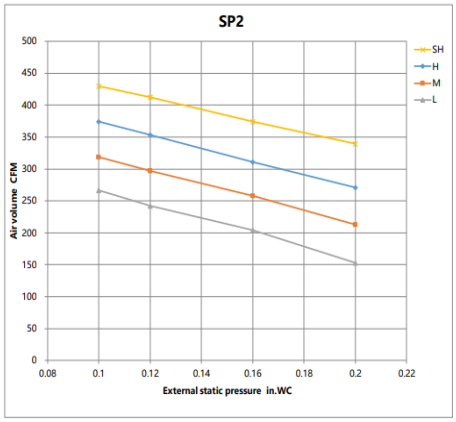
Installation Instruction

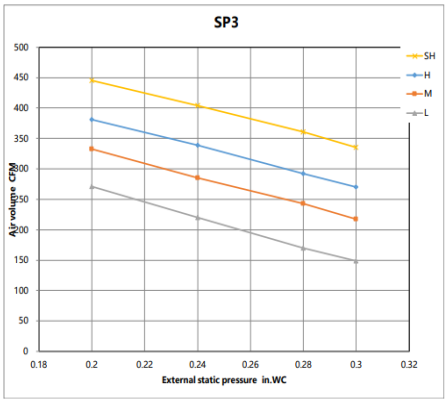


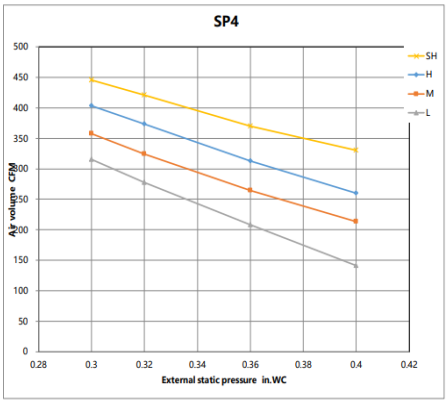
☑ Meets all spatial requirements shown in Installation Clearance Requirements above.

Fan performance

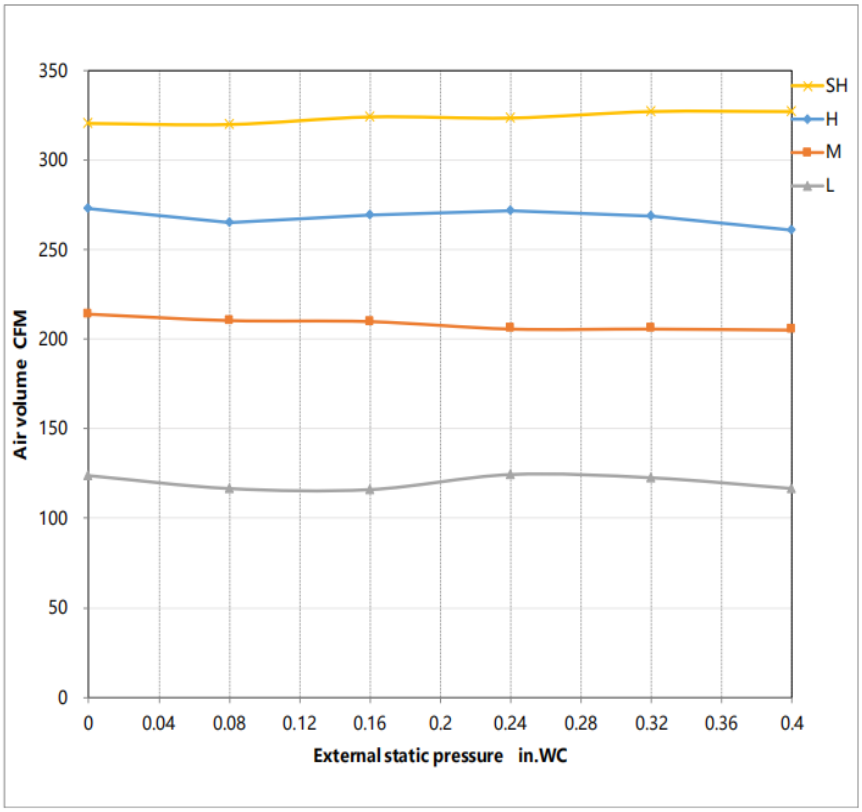








Constant airflow



FEATURES

- Compatible with both horizontal and vertical installation(Optional)
- Static pressure setting stages: 4
- Refrigerant leakage detection sensor
- Constant airflow
- Built-in pump
- i-clean
- Fan speed stages: 1~100%
- WiFi capability: through WiFi dongle or wired controller with built-in WiFi
- OTA(by using wired controller 120N(X6W))
- 2-pin connector(HA/HB) for programmable wired controller
- Multiple control options available:
  - Two way communication wired controller:120N(X6)
  - Two way communication wired controller with built-in WiFi:120N(X6W)
  - Infrared wired controller: 120L
  - Wireless remote controller
  - Third-Party 24V Thermostat*

*24V interface is required.